

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification								DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07					R-1 ITEM NOMENCLATURE Joint Spectrum Center (JSC)/PE 0303153K					
COST (in millions)		FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
Joint Spectrum Center (JS1)		8.194	8.751	19.102	19.159	19.356	14.603	14.786	Contg	Contg

A. Mission Description and Budget Item Justification: The Joint Spectrum Center's (JSC) mission is to ensure the Department of Defense's effective use of the electromagnetic spectrum in support of national security and military objectives. The JSC serves as the DOD center of excellence for electromagnetic (EM) spectrum management matters in support of the Unified Commands, Joint Staff, Assistant Secretary of Defense for Command, Control, Communications and Intelligence (ASD (C³I)), Military Departments, and Defense Agencies. The JSC supports the Electronic Protect missions of Information Warfare (IW) as they relate to spectrum supremacy. It is responsible for developing and maintaining DOD standard information systems that support DoD spectrum related activities and processes. Specifically, the Center designs, develops, and maintains DOD automated spectrum management systems, evaluation tools, and databases employed by the Unified Commands, Military Departments, and Defense Agencies. The JSC databases are the prime sources of information for DOD use of the EM spectrum. The JSC provides technical assistance to the Office of Assistant Secretary of Defense (OASD) C³I, the Joint Staff, DOD activities and the Unified Commands in support of spectrum policy decisions and ensuring the development, acquisition, and operational deployment of systems that are compatible with other spectrum dependent systems operating within the same electromagnetic environment. The Center is the DOD focal point for technical spectrum related support, Electromagnetic Environmental Effects (E³), and EM interference resolution assistance to operational units including deployable support to CINC Joint Task Forces. The JSC mission is integral to other vital activities such as Information Operations (IO), Command and Control (C2) Protect and other defensive IW activities as directed by the Joint Staff. This program element is under Budget Activity 07 because it supports operational systems development.

FY 2001 Accomplishments:

- o Provided Spectrum Technical and Analytical Support to OASD(C³I)/Joint Staff/OSAM and the Services to accomplish studies required as a result of WRC 2000 (1st Qtr - 4th Qtr; \$1.432M)
- o Deployed Version 2.0 of Spectrum XXI and continued to improve analytical tools and databases (1st Qtr - 4th Qtr; \$4.928M)
- o Managed the DoD E3 Program including development of DoD standards, acquisition guidance, and assessment of operational hazards of EM radiation to ordnance (1st Qtr - 4th Qtr; \$1.834M)
- o Total \$8.194M

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification									DATE: February 2002	
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07					R-1 ITEM NOMENCLATURE Joint Spectrum Center (JSC)/PE 0303153K					
COST (in millions)		FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
Joint Spectrum Center (JS1)		8.194	8.751	19.102	19.159	19.356	14.603	14.786	Contg	Contg

FY 2002 Plans:

- o Provide Spectrum Technical and Analytical Support to OASD(C³I)/Joint Staff/Office of Spectrum Management (OSAM) and the Services for the World Radio Conference (WRC) and related spectrum policy issues (1st Qtr - 4th Qtr; \$1.313M)
- o Develop and maintain spectrum analytic tools, and databases to include worldwide deployment of the DoD standard spectrum management information system, SPECTRUM XXI (Version 3.0) (1st Qtr - 4th Qtr; \$5.776M)
- o Manage the DoD E3 Program with increased support to DOT&E in evaluation of Acquisition Category (ACAT) 1 system E3 tests. (1st Qtr - 4th Qtr; \$1.662M)
- o Total \$8.751M

FY 2003 Plans:

- o Provide Spectrum Technical/Analytical Support to OASD(C3I)/Joint Staff/OSAM and Services to accomplish studies required as a result of WRC 2003 (1st Qtr - 4th Qtr \$1.365M)
- o Deploy Version 4.0 of Spectrum XXI and continue to improve analytic tools and databases (1st Qtr - 4th Qtr \$6.008M)
- o Manage DoD E3 Program including development of DoD standards, acquisition guidance and training in E3, and assessment of operational hazards of electromagnetic radiation to ordnance (1st Qtr - 4th Qtr \$1.729M)
- o Investigate and develop spectrum efficient technologies to more effectively utilize and manage critical DoD access to the spectrum. Advances in modeling and simulation and knowledge management will be developed to support policy makers, guide acquisition managers, and assist warfighters to operate effectively in the dense electromagnetic battlespace (1st Qtr - 4th Qtr \$10.000M)
- o Total \$19.102M

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification								DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07					R-1 ITEM NOMENCLATURE Joint Spectrum Center (JSC)/PE 0303153K					
COST (in millions)		FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
Joint Spectrum Center (JS1)		8.194	8.751	19.102	19.159	19.356	14.603	14.786	Contg	Contg

B. Program Change Summary:

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Previous President's Budget (FY 2002)	8.198	8.849	9.200
Appropriated Value	8.735	8.849	
Adjustments to Appropriated Value	-.541	-.098	
Adjustments to Budget Year Since FY 2002 President's Budget			+9.902
Current Budget Submit/President's Budget (FY 2003)	8.194	8.751	19.102

Change Summary Explanation:

FY 2001 change due to below threshold reprogramming.

FY 2002 change due to undistributed congressional adjustments to Defense-wide RDT&E appropriation.

FY 2003 increase due to investments to transform the Department's management and use of the electromagnetic spectrum. Initiatives include development of automated capabilities to provide world-wide secure real-time information on spectrum authorizations, evaluations of spectrum efficient and commercial technologies for implementation in DoD, and development of advanced modeling and simulation capabilities.

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification								DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/07					R-1 ITEM NOMENCLATURE Joint Spectrum Center (JSC)/PE 0303153K					
COST (in millions)		FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
Joint Spectrum Center (JS1)		8.194	8.751	19.102	19.159	19.356	14.603	14.786	Contg	Contg

C. Other Program Funding Summary:

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY2003</u>	<u>FY2004</u>	<u>FY2005</u>	<u>FY2006</u>	<u>FY2007</u>	<u>To Complete</u>
O&M,DW	13.216	13.481	13.968	14.160	14.532	14.766	15.124	Continuing

D. Acquisition Strategy: Engineering support services for the JSC are provided by contract. No in-house government capability exists, nor is it practical to develop one that can provide the expertise necessary to fulfill the mission and responsibilities of the JSC. The period of the previous cost plus award fee contract ended 30 September 2000. Full and open competition was used for the acquisition of a follow-on contract that became effective 24 August 2000 with a basic period of two years and three one year options.

E. Schedule Profile:

	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>	<u>FY2004</u>
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Commerce Business Notice New Contract				
Contract Award				
Contract Performance Begins				
Exercise Option Year 1		X		
Exercise Option Year 2			X	
Exercise Option Year 3				X

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-3 Cost Analysis									DATE: February 2002		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT				PROJECT NAME AND NUMBER					
RDT&E, Defense-Wide/07		Joint Spectrum Center/PE 0303153K				Joint Spectrum Center/JS1					
Cost Category	Contract Method & Type	Performing Activity & Location	Total PYs Cost		FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Contractor Engineering/Technical Spt	C/CPAF	IIT Research Inst Annapolis, MD	13.408						0	13.408	13.408
GFE	C/CPAF	IIT Research Inst Annapolis, MD	.800						0	.800	.800
Engineering/Technical Support MIPR	Various		1.655	.075	Various	.100	Various	0	1.830	1.830	
Contractor Engineering/Technical Spt	C/CPFF	Various	1.619						0	1.619	1.619
Contractor Engineering/Technical Spt	C/CPAF	IIT Research Inst Annapolis, MD	6.870		7.806	02/02	18.132	10/02	36.775	69.583	69.583
GFE	C/CPAF	IIT Research Inst Annapolis, MD	.959		.870	02/02	.870	10/02	1.740	4.439	4.439
Subtotal Test & Evaluation			25.311		8.751		19.102				
Total			25.311		8.751		19.102				
Remarks:											
Previous contract expired on 30 September 2000. Follow-on contract was competitive acquisition and began on 24 August 2000 (2 year basic with 3 option years).											
Page 5 of 5											

UNCLASSIFIED